

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A sintered ferrite body having a main composition comprising 63-80% by mol of Fe_2O_3 , and 3-15% by mol of ZnO , the balance being manganese oxide; R_{cal} determined from the Fe_2O_3 content X (% by mol) by the formula (1) of $R_{\text{cal}} = [200(X-50)]/(3X)$, and the ratio R (%) of Fe^{2+} per the total amount of Fe in said sintered body meeting the condition of $R_{\text{cal}} - 2.0 \leq R \leq R_{\text{cal}} + 0.3$; and said sintered body having a density of 4.9 g/cm^3 or more.
2. (original): The sintered ferrite body according to claim 1, wherein the main composition comprises 68-75% by mol of Fe_2O_3 , and 3-12% by mol of ZnO , the balance being manganese oxide.
3. (currently amended): The sintered ferrite body according to ~~claim 1 or 2~~claim 1, comprising 0.02-0.3% by weight (calculated as CaCO_3) of Ca, and 0.003-0.015% by weight (calculated as SiO_2) of Si, as sub-components, per 100% by weight of the main composition.
4. (currently amended): The sintered ferrite body according to ~~any one of claims 1-3~~claim 1, wherein it has volume resistivity of $0.1 \Omega \cdot \text{m}$ or more.
5. (currently amended): The sintered ferrite body according to ~~any one of claims 1-4~~claim 1, wherein it has a minimum-core-loss temperature of $80^\circ\text{C}-120^\circ\text{C}$.
6. (currently amended): An electronic part comprising a magnetic core formed by the sintered ferrite body recited in ~~any one of claims 1-5~~claim 1, and winding.

7. (original): A method for producing a sintered ferrite body having a main composition comprising 63-80% by mol of Fe_2O_3 , and 3-15% by mol of ZnO , the balance being manganese oxide; R_{cal} determined from the Fe_2O_3 content X (% by mol) by the formula (1) of $R_{\text{cal}} = [200(X-50)]/(3X)$, and the ratio R (%) of Fe^{2+} per the total amount of Fe in the sintered body meeting the condition of $R_{\text{cal}} - 2.0 \leq R \leq R_{\text{cal}} + 0.3$; and said sintered body having a density of 4.9 g/cm³ or more, said method comprising a step of adding a binder to ferrite powder, a molding step, a binder-removing step and a sintering step, said ferrite powder having a spinelization ratio S of 10-60%; the amount V (% by weight) of said binder added being in a range of $1.3 - 0.02S \leq V \leq 2.3 - 0.02S$, assuming that the total amount of said ferrite powder and said binder is 100% by weight; the oxygen concentration in the atmosphere from said binder-removing step to the completion of said sintering step being 0.1% or less by volume.

8. (original): The method for producing a sintered ferrite body according to claim 7, wherein said spinelization ratio of ferrite powder is 10-40%.

9. (currently amended): The method for producing a sintered ferrite body according to ~~claim 7 or 8~~claim 7, wherein said ferrite powder has a specific surface area of 3000-7000 m²/kg.

10. (currently amended): The method for producing a sintered ferrite body according to ~~any one of claims 7-9~~claim 7, wherein the main composition of said sintered ferrite body comprises 68-75% by mol of Fe_2O_3 , and 3-12% by mol of ZnO , the balance being manganese oxide.

11. (currently amended): The method for producing a sintered ferrite body according to ~~any one of claims 7-10~~claim 7, wherein 0.02-0.3% by weight (calculated as CaCO_3) of Ca, and 0.003-0.015% by weight (calculated as SiO_2) of Si are added as sub-components to 100% by weight of said main composition.